

Form PTO/SB/08 1449	Docket Number (Optional) 019743.0261	Application Number 08/976,294
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Applicant Westerlage, et al.	
	Filing Date November 21, 1997	Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ERC	R E 3 4 0 3 4	08/92	O'Sullivan	379	59	09/29/89
ERC	3 5 1 8 6 7 4	06/70	D. L. Moorehead, et al.	343	112	02/13/69
ERC	3 6 8 0 1 2 1	07/72	Anderson, et al.	343	112 TC	01/02/70
ERC	3 7 1 4 6 5 0	01/73	Fuller, et al.	343	6.5 LC	07/30/70
ERC	3 7 5 7 2 9 0	09/73	Ross, et al.	340	23	03/12/71
ERC	3 7 8 9 4 0 9	01/74	Easton	343	112 R	10/08/70
ERC	3 8 4 8 2 5 4	11/74	Drebinger, et al.	343	112 R	06/14/72
ERC	3 9 0 6 1 6 6	09/75	Cooper, et al.	179	41 A	10/17/73
ERC	4 0 5 3 8 9 3	10/77	Boyer	343	112 PT	11/18/75
ERC	4 0 6 7 0 6 1	01/78	Juhasz	364	900	03/18/75
ERC	4 0 8 3 0 0 3	04/78	Haemming	325	6	04/08/76

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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ERC	0 1 6 1 9 4 1	09/84	Japan	H04B7/26			X
ERC	3 5 1 6 3 5 7	11/86	Republic of Germany	H04B9/26	H04B1/02	X	
ERC	0 2 4 2 0 9 9	10/87	EPO	G01S3/14	G06B23/00	X	
ERC	2 1 9 3 8 6 1	02/88	United Kingdom	H04Q7/04		X	
ERC	0 1 7 5 5 3 7	07/88	Japan	H04B7/29	H04Q7/04	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ERC	-	"TRIMPACK" Brochure, TrimbleNavigation, date unknown, 1 page.
ERC	-	Gary D. Ott, "Vehicle Location in Cellular Mobile Radio Systems," <i>IEEE</i> , Vol. VT-26, No. 1, February, 1977, pp. 43-46.
ERC	-	James C. Reynolds, et al., "GPS-Based Vessel Position Monitoring and Display System," <i>IEEE</i> , 1990, pp. 601-607.

EXAMINER <i>Cosimano, E.</i>	DATE CONSIDERED <i>7-20-98</i>
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ERC	4 1 0 7 6 8 9	08/78	Jellinek	343	23	06/07/76
ERC	4 1 5 2 6 9 3	05/79	Ashworth, Jr.	340	24	04/25/77
ERC	4 1 7 7 4 6 6	12/79	Reagan	343	112 TC	11/16/77
ERC	4 2 2 2 0 5 2	09/80	Dunn	343	112 R	12/15/77
ERC	4 2 5 8 4 2 1	03/81	Juhasz, et al.	364	424	03/14/79
ERC	4 3 0 3 8 5 0	12/81	Juhasz, et al.	235	92	03/14/79
ERC	4 3 0 7 4 5 5	12/81	Juhasz, et al.	364	900	03/14/79
ERC	4 4 2 8 0 5 2	01/84	Robinson, et al.	364	436	06/09/81
ERC	4 4 2 8 0 5 7	01/84	Setliff, et al.	364	521	06/09/81
ERC	4 4 3 5 7 1 1	03/84	Ho, et al.	343	389	09/15/80
ERC	4 4 4 5 1 1 8	04/84	Taylor, et al.	343	357	05/22/81

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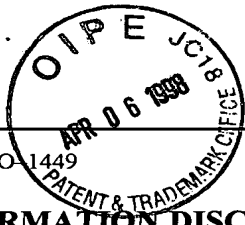
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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ERC	0 2 1 9 2 3 8	09/88	Japan	HO4B726			X
ERC	0 2 9 0 7 2 5	11/88	EPO	21029764		X	
ERC	8 9 0 4 0 3 5	05/89	PCT	61015706		X	
ERC	0 2 2 6 2 2 6	09/89	Japan	1104B726			X
ERC	8 9 1 2 8 3 5	12/89	PCT	60153702		X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ERC	-	R. DeSadaba, "Personal Communications in the Intelligent Network," <i>British Telecommunications Engineering</i> , Vol. 9, August, 1990, pp. 80-83.
ERC	-	"GPS NAVSTAR Global Positioning System User's Overview - YEE-82-009D," <i>Navstar Global Positioning System Joint Program Office</i> , March, 1991, pp. 1-164.
ERC	-	"U.S. Coast Guard Differential GPS" Brochure, <i>U.S. Department of Transportation, United States Coast Guard</i> , May, 1993.

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ERC	4	5	4	7	7	7	8	10/85	Hinkle, et al.	343	456	06/09/81
ERC	4	5	9	0	5	6	9	05/86	Rogoff, et al.	364	452	10/14/83
ERC	4	6	4	4	3	5	1	02/87	Zabarsky, et al.	340	825.44	05/08/84
ERC	4	6	5	1	1	5	7	03/87	Gray, et al.	342	457	05/07/85
ERC	4	6	5	4	8	7	9	03/87	Goldman, et al.	455	33	03/29/85
ERC	4	6	6	0	0	3	7	04/87	Nakamura	340	990	01/26/83
ERC	4	6	7	0	9	0	5	06/87	Sandvos, et al.	455	33	11/29/85
ERC	4	6	8	8	2	4	4	08/87	Hannon, et al.	379	58	11/10/86
ERC	4	7	0	0	3	7	4	10/87	Bini	379	60	06/21/85
ERC	4	7	3	4	9	2	8	03/88	Weiner, et al.	379	59	03/18/87
ERC	4	7	3	7	9	7	8	04/88	Burke, et al.	379	60	10/31/86

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												YES	NO
ERC	0	3	6	7	9	3	5	05/90	EPO	70407/84	000000/00	X	
ERC	2	2	2	1	1	1	3	01/93	United Kingdom	00133/00	000000/00	X	
ERC	3	7	6	7	5	8	9	02/93	Australia	5013003/02	000000/00	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ERC	-	"GPS Facts & Figures" Brochure, U.S. Department of Transportation, United States Coast Guard, May, 1993.
ERC	-	D. H. Alsip, et al., "Implementation of the U.S. Coast Guard's Differential GPS Navigation Service," U.S. Coast Guard Headquarters, Office of Navigation Safety and Waterway Services, Radionavigation Division, June 28, 1993, pp. 1-10.
ERC	-	"Motorola GPS Technical Reference Manual," Motorola, October, 1993, Manual Cover, Title Page, and Pages 4-109.

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ERC	4	7	4	0	7	9	2	04/88	Sagey, et al.	342	457	08/27/86
ERC	4	7	4	2	3	5	7	05/88	Rackley	342	457	09/17/86
ERC	4	7	5	0	1	9	7	06/88	Denekamp, et al.	379	58	07/02/87
ERC	4	7	5	4	4	6	5	06/88	Trimble	375	1	05/07/84
ERC	4	7	7	4	6	7	0	09/88	Palmjeri	364	446	04/29/85
ERC	4	7	7	5	9	9	9	10/88	Williams	379	59	12/07/87
ERC	4	7	7	6	0	0	3	10/88	Harris	379	91	10/01/86
ERC	4	7	8	8	6	3	7	11/88	Tamaru	364	200	09/29/86
ERC	4	7	9	1	5	7	1	12/88	Takahashi, et al.	364	436	10/08/86
ERC	4	7	9	1	5	7	2	12/88	Green, III, et al.	364	449	11/20/85
ERC	4	7	9	6	1	8	9	01/89	Nakayama, et al.	364	449	03/19/86

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												YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ERC	-	Don Burtis, "CDPD--A Bandwidth Optimization Technique for Cellular Telephones," <i>Computer Design's OEM Integration</i> , May, 1994, pp. 19-20.
ERC	-	"U.S. Coast Guard Bulletin Board System File 'FRP-DGPS,'" <i>U.S. Coast Guard</i> , Date Unknown, pp. 1-6.
ERC	-	Gene L. Schlechte, LCDR, "U.S. Coast Guard Bulletin Board System Document 'DESIGN.TXT' - Design Process for the United States Coast Guard's Differential GPS Navigation Service," <i>U.S. Coast Guard, U.S. Coast Guard Omega Navigation System Center</i> , Date Unknown, pp. 1-21.

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ERC	4	7	9	7	9	4	8	01/89	Milliorn, et al.	455	54	07/22/87
ERC	4	7	9	9	1	6	2	01/89	Shinkawa, et al.	364	436	10/24/86
ERC	4	8	0	4	9	3	7	02/89	Barbiaux, et al.	340	52F	05/26/87
ERC	4	8	0	9	0	0	5	02/89	Counselman, III	342	352	01/21/88
ERC	4	8	1	9	1	7	4	04/89	Furuno, et al.	364	444	01/29/87
ERC	4	8	3	3	4	7	7	05/89	Tendler	342	389	11/22/88
ERC	4	8	3	3	7	0	1	05/89	Comroe, et al.	379	60	01/27/88
ERC	4	8	3	3	7	0	2	05/89	Shitara, et al.	379	60	05/13/88
ERC	4	8	4	3	5	7	5	06/89	Crane	364	550	02/13/86
ERC	4	8	6	0	3	4	1	08/89	D'Avello, et al.	379	91	02/13/89
ERC	4	8	6	6	7	6	2	09/89	Pirfar	379	200	04/04/88

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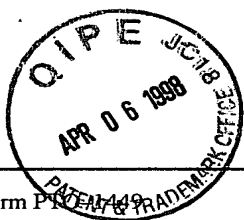
	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	Translation	
												YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ERC		"Appendix B, The 1991 Radionavigation User Conference," <i>Department of Transportation</i> , Date Unknown, pp. 1-2.
ERC		Kirk Ladendorf, "First in Flight--Using State-Of-The-Art Technology, Austin-Based Arrowsmith Technologies Establishes Itself As A Major Player in Nascent Technology-Supplier Market," <i>Austin American-Statesman</i> , January 30, 1995, 3 pages.

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Form PTO/AIA 149	Docket Number (Optional) 019743.0261	Application Number 08/976,294
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ERC	4	8	7	6	7	3	8	10/89	Selby	466	33	09/16/87
ERC	4	8	8	4	2	0	8	11/89	Marinelli, et al.	364	460	05/16/88
ERC	4	8	9	1	6	5	0	01/90	Sheffer	342	457	05/16/88
ERC	4	8	9	1	7	6	1	01/90	Gray, et al.	364	452	03/31/88
ERC	4	8	9	7	6	4	2	01/90	DiLullo, et al.	340	825.060	10/14/88
ERC	4	9	0	1	3	4	0	02/90	Parker, et al.	379	60	09/19/88
ERC	4	9	0	5	2	7	0	02/90	Ono	379	58	12/14/88
ERC	4	9	0	7	2	9	0	03/90	Cròmpton	455	56	05/13/88
ERC	4	9	0	8	6	2	9	03/90	Apsell, et al.	342	457	12/05/88
ERC	4	9	1	2	7	5	6	03/90	Hop	379	60	04/07/89
ERC	4	9	1	4	6	8	6	04/90	Hagar, III, et al.	379	61	11/28/86

FOREIGN PATENT DOCUMENTS

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												YES	NO

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Form PTO-149 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 019743.0261	Application Number 08/976,294
	Applicant Westerlage, et al.	
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U.S. PATENT DOCUMENTS

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ERC	4	9	4	5	5	7	0	07/90	Gerson, et al.	381	110	08/25/89
ERC	4	9	5	3	1	9	8	08/90	Daly, et al.	379	61	07/05/89
ERC	4	9	6	3	8	6	5	10/90	Ichikawa, et al.	340	995	03/16/87
ERC	4	9	9	3	0	6	2	02/91	Dula, et al.	379	88	02/10/89
ERC	4	9	9	8	2	9	1	03/91	Marui, et al.	455	89	11/23/88
ERC	5	0	0	3	3	1	7	03/91	Gray, et al.	342	457	07/11/89
ERC	5	0	0	8	8	1	4	04/91	Mathur	364	200	08/15/88
ERC	5	0	1	4	2	0	6	05/91	Scribner, et al.	364	449	08/22/88
ERC	5	0	1	9	9	6	3	05/91	Alderson, et al.	364	200	03/21/88
ERC	5	0	2	5	2	5	3	06/91	DiLullo, et al.	340	825.06	10/03/89
ERC	5	0	3	2	8	4	5	07/91	Velasco	342	457	02/08/90

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												YES	NO

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ERC	5	0	4	3	7	3	6	08/91	Darnell, et al.	342	357	07/27/90
ERC	5	0	4	5	8	6	1	09/91	Duffett-Smith	342	457	07/28/88
ERC	5	0	4	6	0	8	2	09/91	Zicker, et al.	379	59	05/02/90
ERC	5	0	5	5	8	5	1	10/91	Sheffer	342	457	11/29/89
ERC	5	0	5	8	2	0	1	10/91	Ishii, et al.	455	33	05/24/89
ERC	5	0	6	8	6	5	6	11/91	Sutherland	340	989	12/21/90
ERC	5	0	9	0	0	5	0	02/92	Heffernan	379	60	04/30/91
ERC	5	1	0	1	5	0	0	03/92	Marui	455	33	05/26/89
ERC	5	1	1	9	1	0	2	06/92	Barnard	342	357	01/23/91
ERC	5	1	2	1	1	2	6	06/92	Clagett	342	419	03/12/91
ERC	5	1	2	1	3	2	5	06/92	DeJonge	364	442	07/03/91

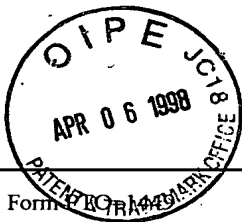
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ERC	5	1	3	1	0	1	9		07/92	Sheffer, et al.	379	39	03/21/90
ERC	5	1	3	1	0	2	0		07/92	Liebesny, et al.	379	59	12/29/89
ERC	5	1	4	2	2	8	1		08/92	Park	340	991	01/31/90
ERC	5	1	4	2	6	5	4		08/92	Sonberg, et al.	379	59	08/09/90
ERC	5	1	5	5	4	9	0		10/92	Spradley, Jr., et al.	342	357	10/15/90
ERC	5	1	5	5	8	4	7		10/92	Kirouac, et al.	395	600	08/03/88
ERC	5	1	5	9	6	2	5		10/92	Zicker	379	59	10/24/90
ERC	5	1	6	6	6	9	4		11/92	Russell, et al.	342	457	08/20/91
ERC	5	1	7	2	3	2	1		12/92	Ghaem, et al.	364	444	12/10/90
ERC	5	2	0	8	7	5	6		05/93	Song	364	449	01/28/91
ERC	5	2	2	3	8	4	4		06/93	Mansell, et al.	342	357	04/17/92

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ERC	5	2	2	5	8	4	2	07/93	Brown, et al.	342	357	05/09/91
ERC	5	2	3	5	6	3	3	08/93	Dennison, et al.	379	60	12/26/91
ERC	5	2	3	7	6	1	2	08/93	Raith	380	23	03/29/91
ERC	5	2	4	3	5	2	9	09/93	Kashiwazaki	364	449	06/29/92
ERC	5	2	4	7	5	6	4	09/93	Zicker	379	40	10/24/90
ERC	5	2	5	2	9	8	2	10/93	Frei	342	357	08/07/91
ERC	5	2	6	1	1	1	8	11/93	Vanderspool, II, et al.	455	51.2	10/04/91
ERC	5	2	7	0	9	3	6	12/93	Fukushima, et al.	364	444	09/23/92
ERC	5	2	7	6	7	2	9	01/94	Higuchi, et al.	379	58	07/14/92
ERC	5	2	9	3	1	6	3	03/94	Kakihara, et al.	340	995	08/18/93
ERC	5	2	9	7	1	9	1	03/94	Gerszberg	379	59	06/03/93

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ERC	5	2	9	7	1	9	2	03/94	Gerszberg	379	59	06/30/93
ERC	5	2	9	9	1	3	2	03/94	Wortham	364	460	07/28/92
ERC	5	3	1	1	1	9	4	05/94	Brown	342	357	09/15/92
ERC	5	3	2	3	3	2	2	06/94	Mueller, et al.	364	449	03/05/92
ERC	5	3	5	9	5	2	8	10/94	Haendel, et al.	364	424.04	02/19/93
ERC	5	3	6	5	5	1	6	11/94	Jandrell	370	18	08/16/91
ERC	5	3	9	2	4	5	8	02/95	Sasuta, et al.	455	54.1	04/28/93
ERC	5	3	9	6	5	4	0	03/95	Goqch	379	59	04/22/94

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	Translation	
												YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <i>Cosimano, E.</i>	DATE CONSIDERED <i>7-20-98</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.